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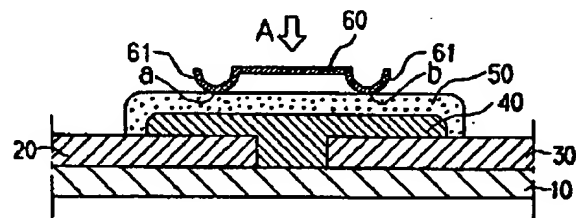
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(54)【発明の名称】 可変抵抗器

(57)【要約】

【課題】 耐久性が高くて高寿命化が図れ、構造が簡単で製造が容易で薄型化・小型化も図れる可変抵抗器を提供する。

【解決手段】 2つの導体パターン20、30間を抵抗体パターン40にて接続し、抵抗体パターン40上に感圧抵抗膜50を形成し、感圧抵抗膜50上に2つの押圧部61、61を具備する短絡部材60を載せる。短絡部材60を押圧することで押圧部61、61によって押圧された感圧抵抗膜50部分a、bの厚み方向の抵抗値を変化させることで、2つの導体パターン20、30間の抵抗値を変化する。導体パターン20、30と抵抗体パターン40と感圧抵抗膜50は、何れもフレキシブル基板10上に印刷形成される。



10 フレキシブル基板 20、30 導体パターン 40 抵抗体パターン  
50 感圧抵抗膜 60 短絡部材 61、61 押圧部

本発明の第一実施形態

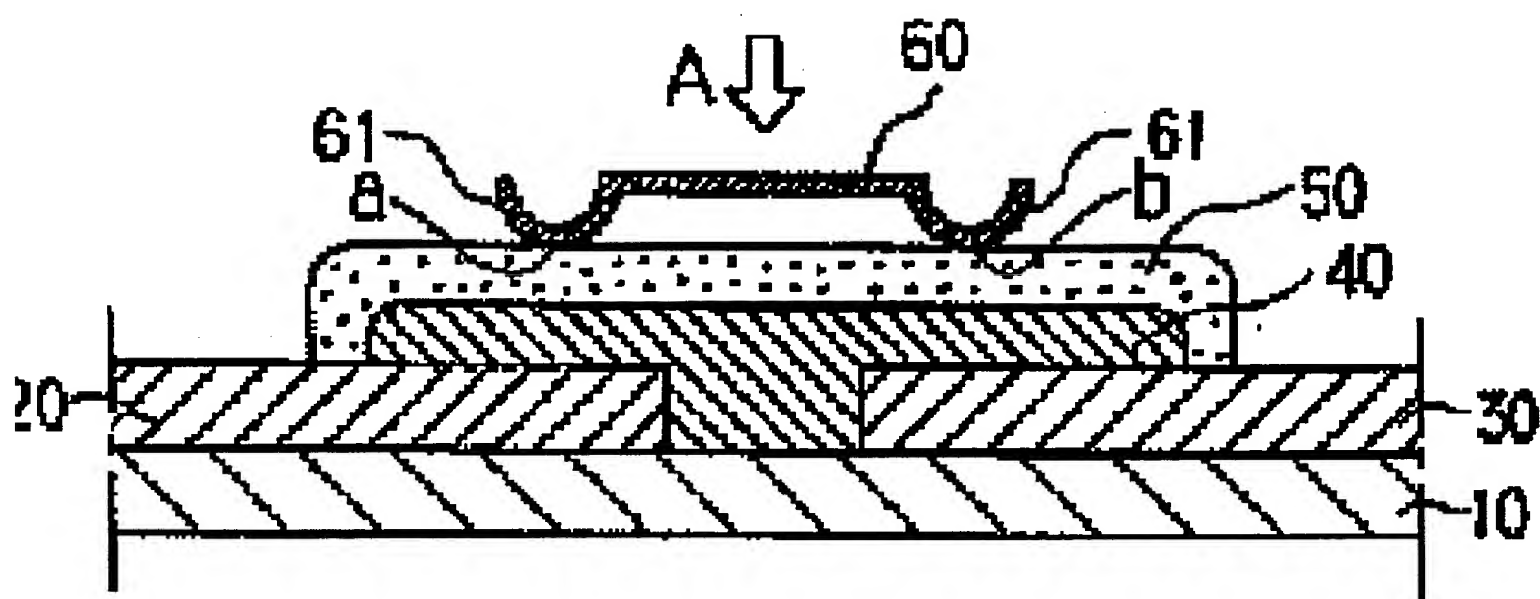


FIG. 1A

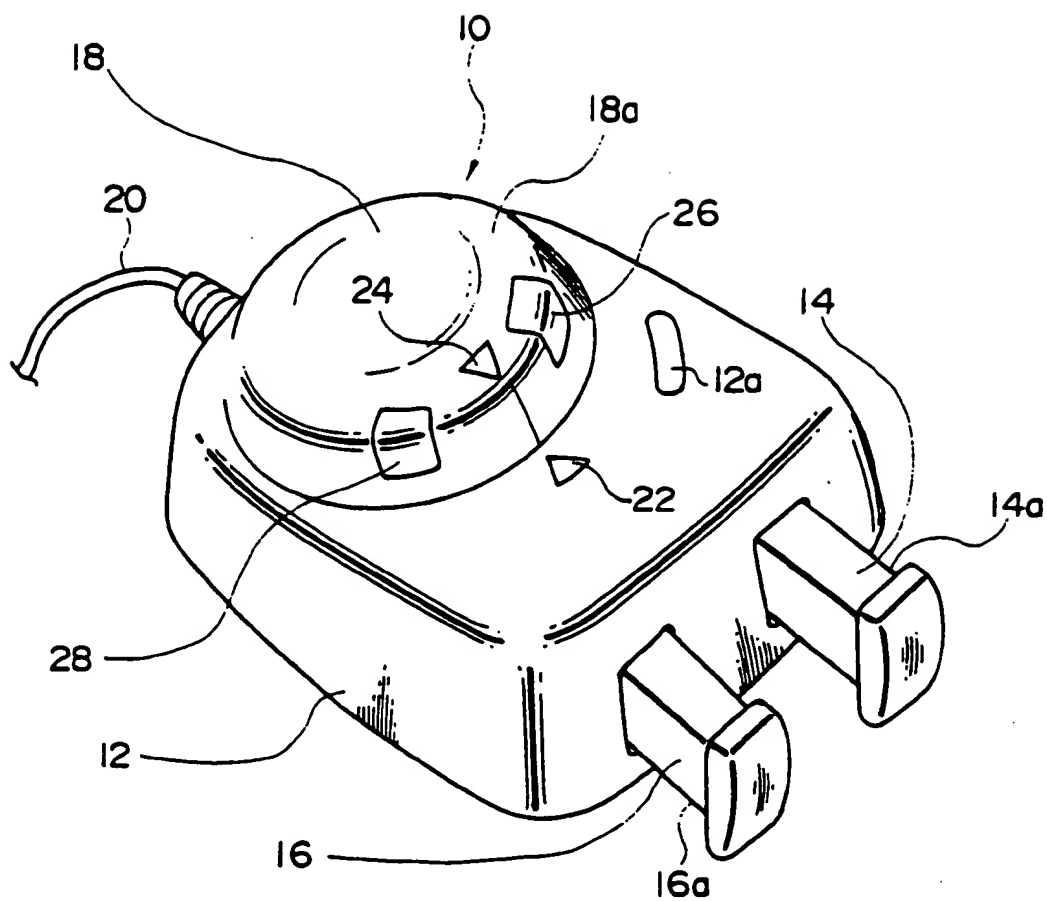


FIG. 1B

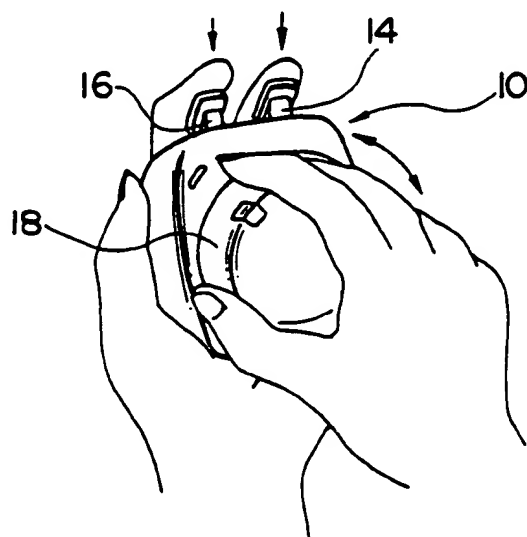


FIG. 2A

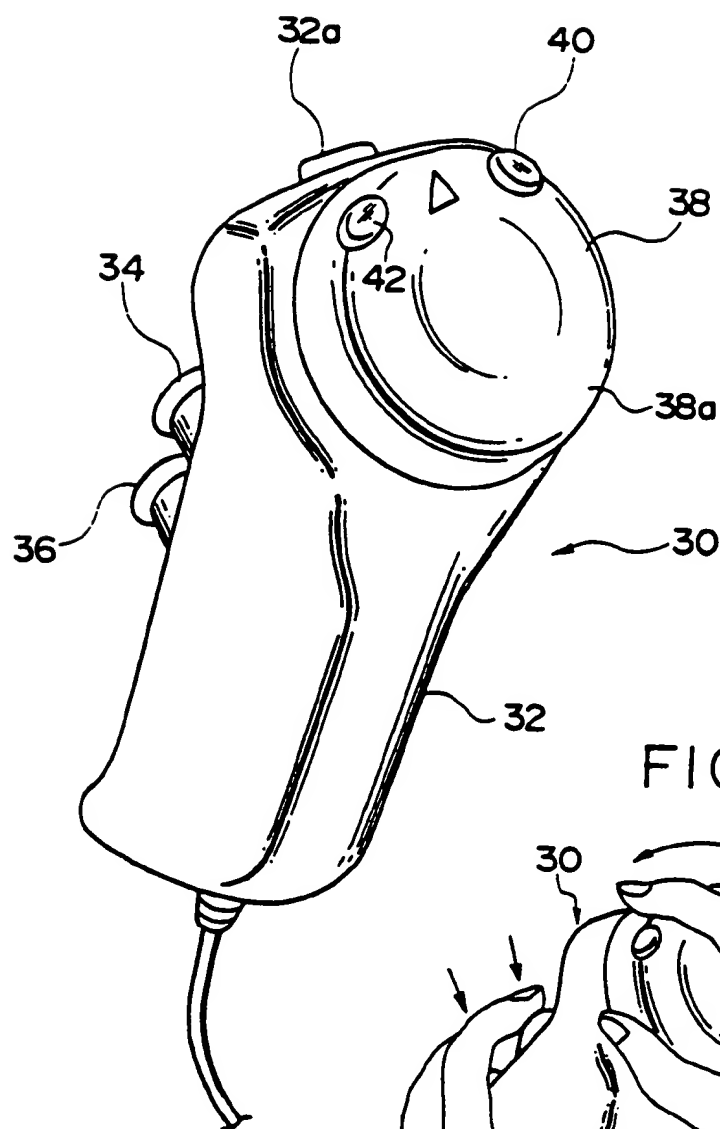


FIG. 2B

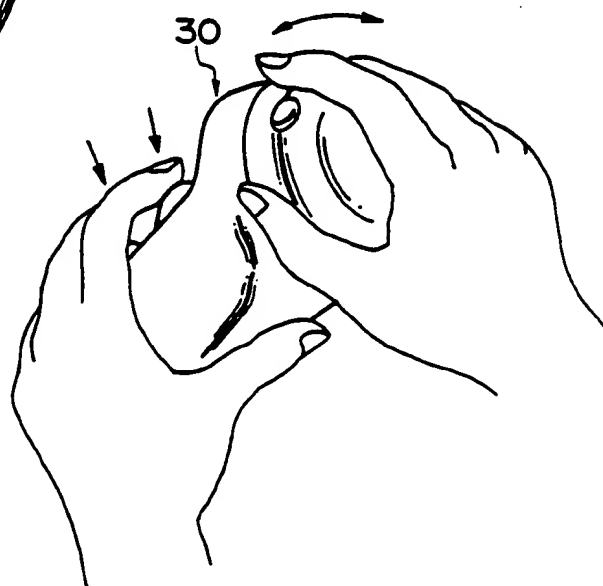


FIG. 3A

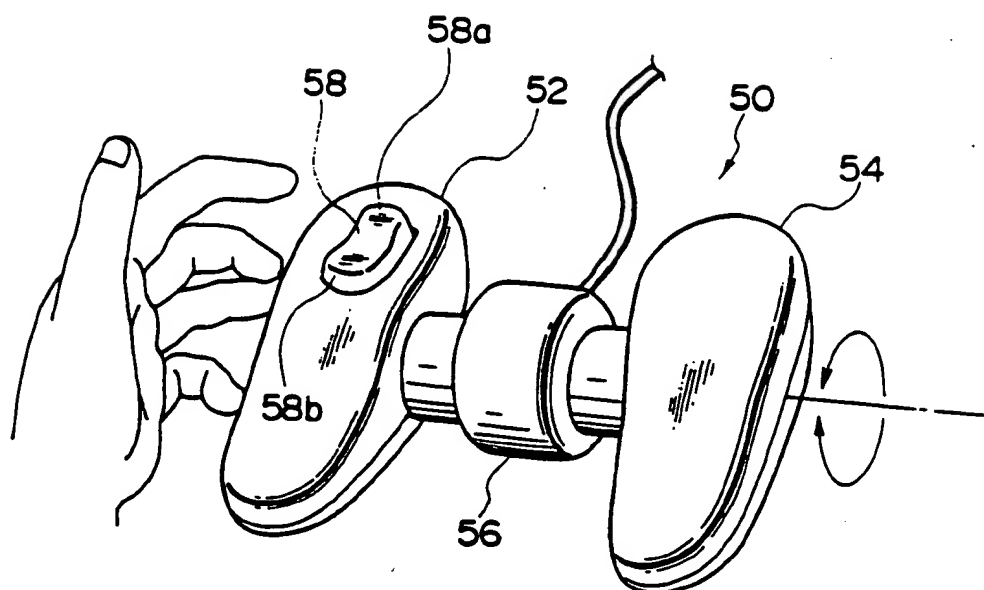


FIG. 3B

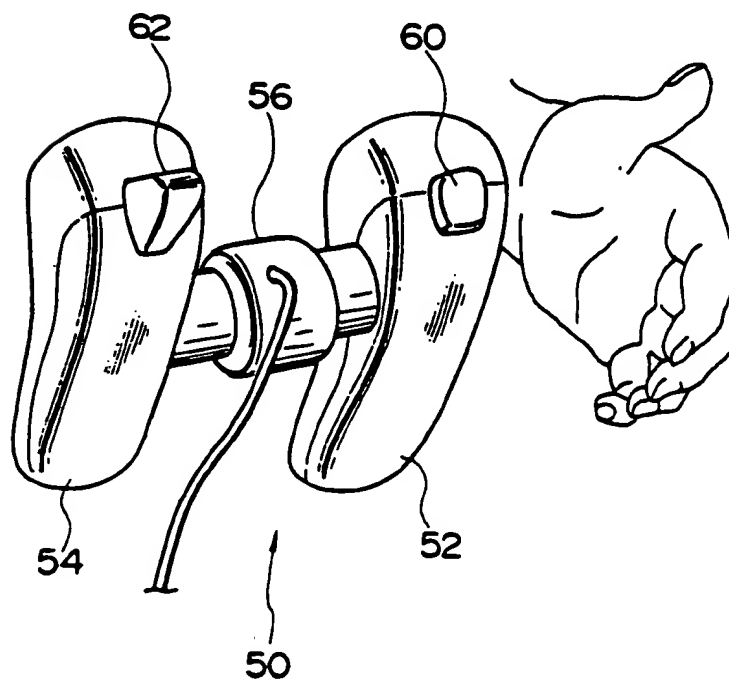


FIG. 4

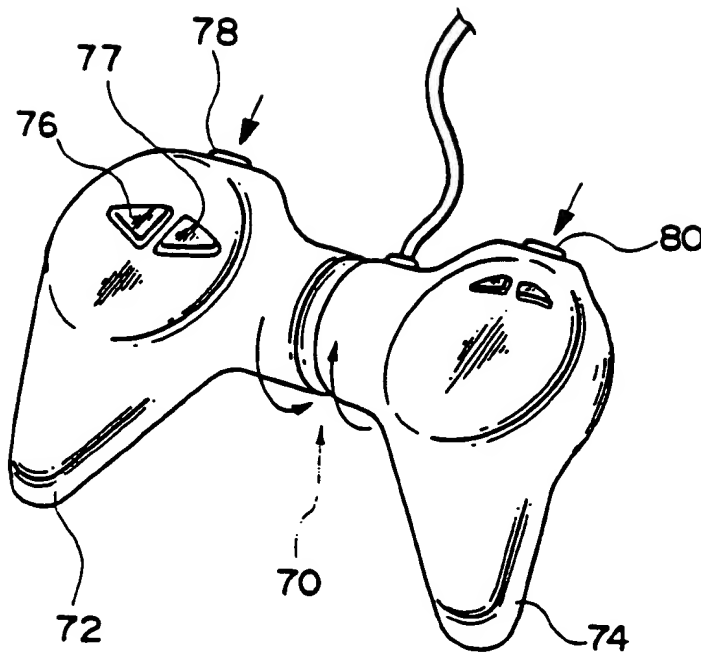
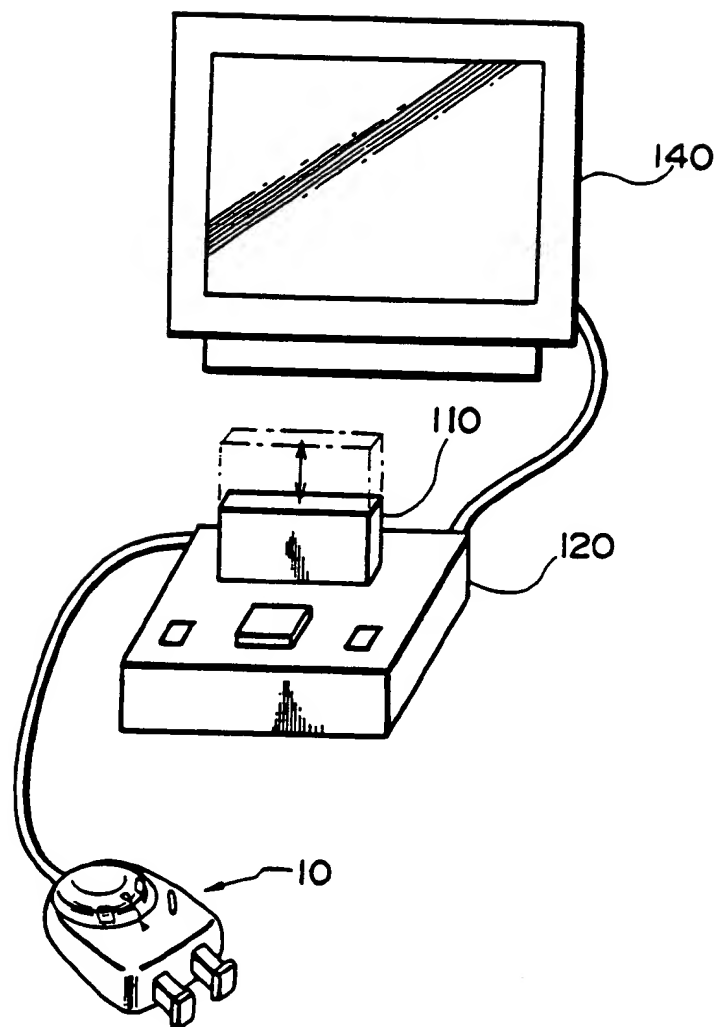


FIG. 5



## INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP95/01051

## A. CLASSIFICATION OF SUBJECT MATTER

Int. C16 A63F9/22

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

Int. C16 A63F9/22, G06F3/033

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Jitsuyo Shinan Koho	1922 - 1995
Kokai Jitsuyo Shinan Koho	1971 - 1995
Toroku Jitsuyo Shinan Koho	1994 - 1995

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	JP, 5-92848, U (NEC Home Electronics Co., Ltd.), December 17, 1993 (17. 12. 93) (Family: none) Full descriptions, Fig. 1	1
P,Y	JP, 7-116351, A (Sugiyama Electron K.K.), May 9, 1995 (09. 05. 95) (Family: none) Full descriptions, Figs. 1 to 2	2
Y	JP, 1-38062, U (Sccess K.K.), March 7, 1989 (07. 03. 89) (Family: none) Full descriptions, Figs. 1 to 4	2

☐ Further documents are listed in the continuation of Box C.☐ See patent family annex.

## \* Special categories of cited documents:

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"&amp;" document member of the same patent family

Date of the actual completion of the international search

July 11, 1995 (11. 07. 95)

Date of mailing of the international search report

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Name and mailing address of the ISA/

Japanese Patent Office

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